	Application No.	Applicant(s)
Notice of Allowability	10/649,931	GOKO, HIROKI
	Examiner	Art Unit	
	Dac V. Ha	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *08/28/03*.

2. ☒ The allowed claim(s) is/are *1-4, renumbered as 1-4, respectively*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☒ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☒ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date *12/11/03, 11/22/04*

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

Dac V. Ha
Primary Examiner
Art Unit: 2611

Allowable Subject Matter

1.   Claims 1-4 are allowed.

2.   The following is a statement of reasons for the indication of allowable subject

matter:

The present invention relates to apparatus for processing signal in

synchronization with a clock signal employing a buffer. In prior art of record, data is

written into and read from the buffer using either different read and write clock signals

(as in Nguyen – US 5,905,766), or the using one of the clock for modifying the other (as

in Taniguchi et al. – US 5,996,052) in a manner directly from the buffer. Prior art of

record, taking individually or collectively, fails to fairly teach such apparatus, as claimed,

as a whole, including "an input flip flop for taking input data in synchronization with a

clock signal; and output flip flop for outputting data in synchronization with the clock

signal; a first data path for giving the input data taken in the input flip flop to the storage

part; a second data path for giving data read out of the storage part to the output flip

flop", in independent claim 4, and similarly in independent claim 1 (claims 2-3 depend

therefrom). Thus, claims 1-4 are found to be novel and unobvious over prior art of

record.

Conclusion

3.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Nguyen (US 5,905,766) discloses Synchronizer, Method And System For Transferring Data.

Taniguchi et al. (US 5,996,052) discloses Mehtod And Circuit For Enabling A Clock – Synchronized Read-Modifying-Write Operation On A Memory Array.

Ogawa (US 5,272,728) discloses Preamble Length Adjustment Method In Communication Network And Independent Synchronization Type Serial Data Communication Device.

Wolf (US 4,525,849) discloses Data Transmission Facility Between Two Asynchronously Controlled Data Processing Systems With A Buffer Memory.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-3086. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dac V. Ha
Primary Examiner
Art Unit 2611